

U.S. ENVIRONMENTAL PROTECTION AGENCY
POLLUTION/SITUATION REPORT
Raritan Bay Slag Site - Remedial - Removal Polrep



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Region II

Subject: POLREP #21
Progress
Raritan Bay Slag Site - Remedial
A205
Old Bridge, NJ
Latitude: 40.4543218 Longitude: -74.2381070

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Date: 1/18/2018

Reporting Period: January 8, 2018 through January 12, 2018

1. Introduction

1.1 Background

Site Number:	A205	Contract Number:	EP-S2-15-02
D.O. Number:	D.O.#47/#54	Action Memo Date:	
Response Authority:	CERCLA	Response Type:	
Response Lead:	EPA	Incident Category:	
NPL Status:	NPL	Operable Unit:	
Mobilization Date:	2/21/2017	Start Date:	2/21/2017
Demob Date:		Completion Date:	
CERCLIS ID:	NJN000206276	RCRIS ID:	
ERNS No.:		State Notification:	
FPN#:		Reimbursable Account #:	

1.1.1 Incident Category

On-going release of heavy metals into adjacent soil, wetlands and water. The source of the heavy metals are related to the waste created during the recovery of lead from used batteries. The waste is primarily in the form of slag and battery casings. This waste was used as fill in the Margaret's Creek portion of the Site. The presence of this waste has been confirmed and will be removed and disposed off-site. This work is being performed as a Remedial Action pursuant to the Record of Decision (ROD) for the Site.

1.1.2 Site Description

The Margaret's Creek Sector of the Raritan Bay Slag Site is approximately 47-acres of open space consisting of wetland and upland areas. Portions of the upland area is filled with slag and battery casings. The slag was brought to the Site approximately 50 years ago.

1.1.2.1 Location

The Margaret's Creek Sector of the Raritan Bay Slag Site is located between the Laurence Harbor and Cliffwood Beach sections of Old Bridge Township, Middlesex County, New Jersey.

1.1.2.2 Description of Threat

EPA has conducted multiple sampling events at the Site since 2008 under both the removal and remedial programs. The sampling activities included the collection of soil, sediment, water, and waste samples within the Margaret's Creek Sector. Analytical results generated by EPA indicate that significantly elevated levels of lead and other heavy metals are present in the soils and sediment. Analytical results for surface soil samples collected within the Margaret's Creek Sector were as high as: 78,000 mg/kg for lead. Representative samples of the excavated wastes generated during previous mitigation work have exceeded the Resource Conservation and Recovery Act Toxicity Characteristic Leaching Procedure limit for lead (5 mg/l).

1.1.3 Preliminary Remedial Assessment/Remedial Site Inspection Results

Information pertaining to the assessment and Site inspection results can be found in the Record of Decision (ROD) and the Final Design Analysis Report (DAR) for the Site, which are available through the Remedial Project Manager and website established for this Site.

2. Current Activities

2.1 Operations Section

2.1.1 Narrative

The overall approach to this Remedial Action is to remove crushed battery casings, slag and lead-contaminated soil to prevent the direct contact threat to the public and the migration of contaminated materials to adjacent wetlands, and public recreation areas.

As part of this approach, contaminated soil, slag, and debris is being excavated and stockpiled on a 30 mil HDPE impermeable liner. Stockpiled waste material are then screened to remove slag, rocks, and debris larger than 6-inches in size. The screening process results in two waste streams; 1) waste larger than 6-inches consisting primarily of slag and 2) waste less than 6-inches consisting primarily of soil, battery casings and smaller pieces of slag. Slag waste larger than 6-inches cannot be properly stabilized and must be crushed prior to treatment.

2.1.2 Response Actions to Date

Response actions completed prior to December 15, 2017 are described in previous POLREPs for the Site.

The following actions have been completed during this reporting period:

- * Response actions in support of the Remedial Action included delineation soil sampling events for the purpose of defining the horizontal and vertical extent of lead contamination in areas of concern (AOC) identified in the DAR.
- * From January 8, 2018 through January 10, 2018, 727.65 tons of lead contaminated slag, soil and debris was transported off-site for disposal. This waste material was generated during the additional remediation activities within AOC-H. No stockpiled hazardous waste material remain on-site.
- * From January 8 through January 10, 2018, approximately 1,700-tons of upland topsoil and 625-tons of bank run sand were delivered to the Site and stockpiled for use in the spring 2018.
- * On January 8, 2018, the final 2 truckloads of vegetative material (trees, brush, etc.) were removed from the Site for recycling per the direction of the RPM. This brings the total number of truckloads removed from the Site to 12. The vegetative material was generated during the clearing and grubbing of excavation and work areas.
- * On January 9, 2018, an on-site progress meeting with the RPM was held.
- * On January 11, 2018, all remaining heavy equipment was cleaned and removed from the Site. On-site security services were discontinued on January 11, 2018. The OSC will visit the Site weekly to inspect excavation areas, erosion control and overall Site conditions.
- * On January 12, 2018 all remaining contractor personnel demobilized from the Site.
- * At this time, the project is estimated to be 70% complete.

2.1.3 Enforcement Activities, Identity of Potentially Responsible Parties (PRPs)

Enforcement activities are being managed by the Remedial Program.

2.2 Planning Section

2.2.1 Anticipated activities for the next reporting period

2.2.1.1 Planned Response Activities

- * Site operations have been suspended until March 2018.
- * A weekly inspection of the Site will be conducted to insure erosion controls remain in satisfactory condition.

2.2.1.2 Next Steps

- * Preparation of the weekly air monitoring summary report.
- * Conducting the weekly progress meeting with the RPM.

2.2.2 Issues

- * During remediation activities within AOC-A, battery casing material was observed beyond the Site access gate towards U.S. Highway Route 35. EPA and RST3 conducted a test pit investigation to define the extent of this material outside of the property fence line. Based on this investigation, battery casings extend to Route 35 and approximately 60 feet east and west of the entrance gate. EPA contacted NJDOT and Old Bridge Township officials to determine what the right of way limits are adjacent to NJ Route 35. NJDOT has provided EPA with a drawing showing the right-of-way (ROW) along the Route 35 property frontage. A survey to determine the exact limits of the ROW has been completed and compiled for submission to the RPM. The decision to excavate this material will be made by the RPM.
- * The sequencing of excavation activities has deviated from the Design Analysis Report (DAR). Excavation work will proceed as follows: AOC H, E, U, V, W, S, Q, P, O, F, I, M, N, K, L/Y2, X1, X2, X3, Z and A.
- * Significant rainfall events may affect operations if the water level in Margaret's Creek rise and back up into the low-lying portions of the Site.

2.3 Logistics Section

No information available at this time.

2.4 Finance Section

2.4.1 Narrative

On September 9, 2016, \$7,000,000 was allocated to the regional Emergency & Rapid Response Services (ERRS) contract for this project. On February 6, 2017, an additional \$6,550,000 was added to the existing funding for the Remedial Action.

Funding for the Removal Support Team (RST) was allocated on October 27, 2016 (\$200,000) and February 6, 2017 (\$450,000).

Project costs shown below are as of January 12, 2018.

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining

Extramural Costs				
ERRS - Cleanup Contractor	\$13,550,000.00	\$3,990,612.24	\$9,559,387.76	70.55%
RST/START	\$650,000.00	\$385,507.73	\$264,492.27	40.69%
Intramural Costs				
Total Site Costs	\$14,200,000.00	\$4,376,119.97	\$9,823,880.03	69.18%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

2.5 Other Command Staff

2.5.1 Safety Officer

None

2.5.2 Liaison Officer

None

2.5.3 Information Officer

None

3. Participating Entities

3.1 Unified Command

3.2 Cooperating Agencies

: New Jersey Department of Environmental Protection;
 : New Jersey Department of Transportation;
 : Freehold Soil Conservation District;
 : Middlesex County Parks and Recreation;
 : Middlesex County Mosquito Commission;
 : Middlesex County Utilities Authority;
 : Old Bridge Township Municipal Utilities Authority;
 : Old Bridge Township Parks and Recreation.

4. Personnel On Site

EPA OSC

EPA RPM

ERRS Contractor (6-7 personnel)

RST 3 Contractor (1-2 personnel)

5. Definition of Terms

Not Applicable

6. Additional sources of information

6.1 Internet location of additional information/report

Not Applicable

6.2 Reporting Schedule

Not Applicable

6.3 Disposal Table

Waste Stream	Medium	Manifest #	Quantity (tons)	Treatment	Disposal Facility
Hazardous Waste	Soil/slag < 6"	017806063JJK	25.52	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806064JJK	26.41	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806065JJK	25.24	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806066JJK	26.55	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806038JJK	27.44	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806039JJK	27.93	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806040JJK	24.59	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806041JJK	25.97	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806042JJK	27.35	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806043JJK	25.61	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806044JJK	24.87	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806045JJK	26.11	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806046JJK	25.76	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806047JJK	24.13	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806048JJK	24.64	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806049JJK	25.73	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806050JJK	24.82	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806051JJK	26.14	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806052JJK	24.59	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806053JJK	24.58	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806055JJK	24.32	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806054JJK	26.7	Stabilization	Landfill
Hazardous Waste	Soil/slag < 6"	017806056JJK	23.48	Stabilization	Landfill

Hazardous Waste	Slag > 6"	018071813JJK	27.57	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071812JJK	25.64	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071811JJK	26.17	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071808JJK	25.69	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071810JJK	24.16	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071809JJK	24.92	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071806JJK	26.58	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071805JJK	26.54	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071804JJK	26.46	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071807JJK	25	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071803JJK	24.82	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071802JJK	24.94	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071801JJK	26	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071800JJK	25.11	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071798JK	25.94	Stabilization	Landfill
Hazardous Waste	Slag > 6"	018071799JK	28.14	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011519001FLE	20.84	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518997FLE	23.63	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518998FLE	22.39	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518999FLE	21.5	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011519000FLE	20.95	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518982FLE	22.3	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518983FLE	22.52	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518981FLE	21.79	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518996FLE	23.84	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518977FLE	21.73	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518980FLE	23.51	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011519002FLE	20.39	Stabilization	Landfill
Hazardous Waste	Soil with ACM	011518979FLE	22.03	Stabilization	Landfill
Total Tonnage			17057.025		

7. Situational Reference Materials

Not Applicable